

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions  
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P321410

Luminaire Tested: **GLEON-SA6C-827-U-T2R-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P321410  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-9)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GLEON-SA6C-827-U-T2R-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 80 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II  
ROADWAY OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 25103 lumens  
Efficiency: N/A  
Efficacy: 75.4 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B1 - U0 - G3

Input Watts (W): 333  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT

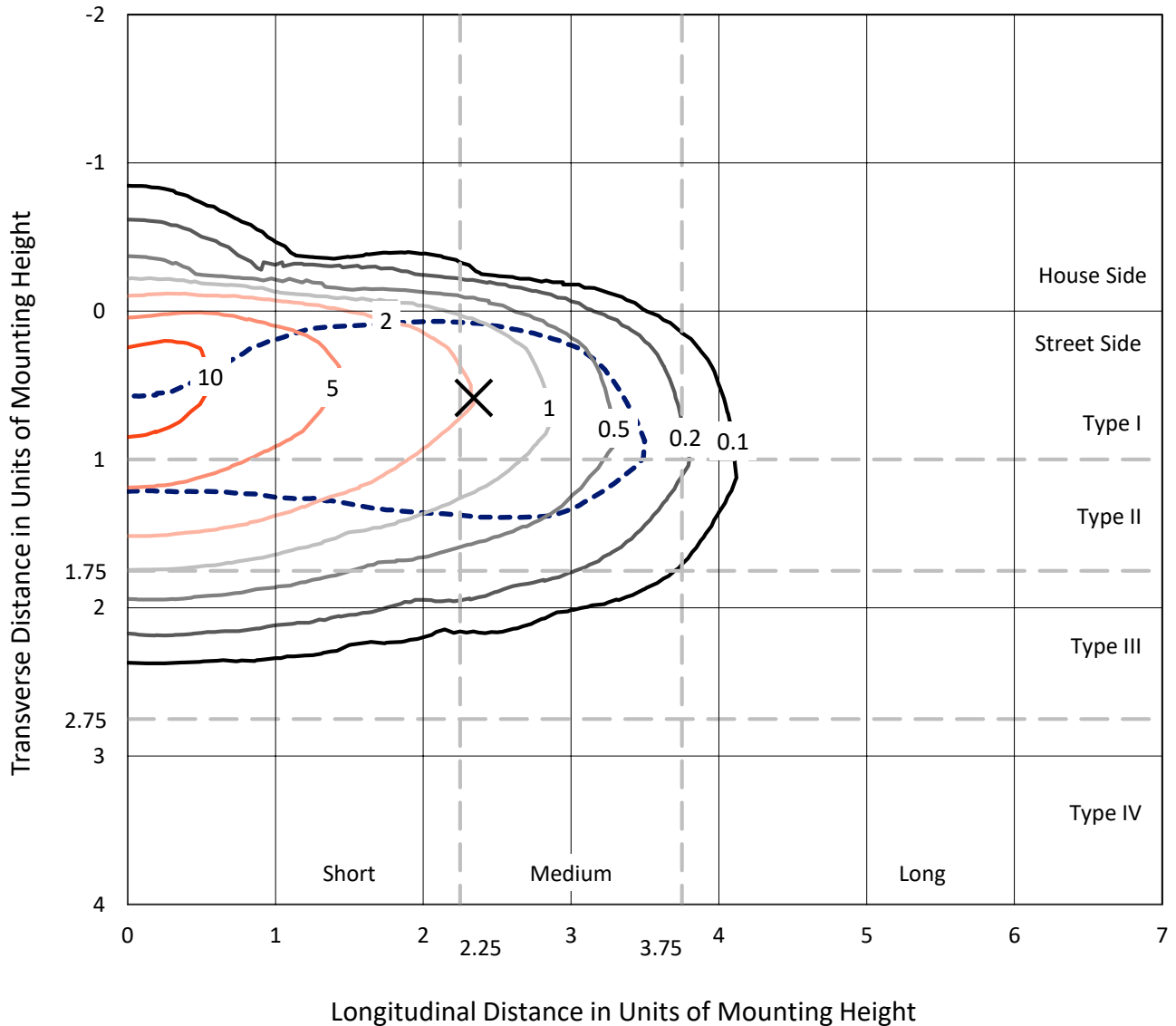




REPORT NUMBER: P321410  
 CATALOG NUMBER: GLEON-SA6C-827-U-T2R-HSS

### Iso-Footcandle Lines of Horizontal Illumination

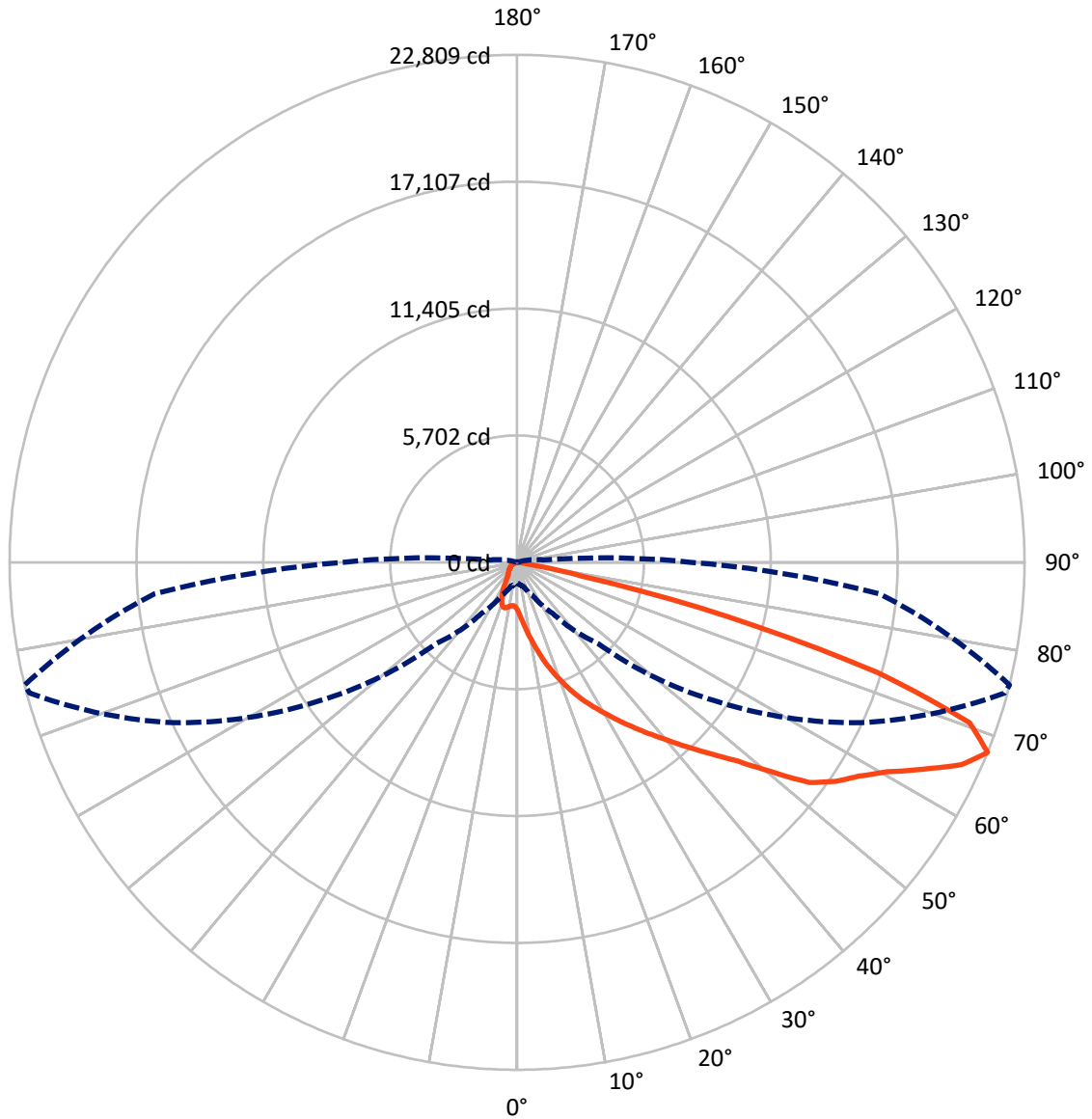
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12 fc  
 Type II - Medium - N/A

REPORT NUMBER: P321410  
CATALOG NUMBER: GLEON-SA6C-827-U-T2R-HSS

### Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral      - - - Horizontal Cone Through 67.5-Deg Vertical

REPORT NUMBER: P321410  
 CATALOG NUMBER: GLEON-SA6C-827-U-T2R-HSS

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1246.6	0.0	1246.6
	% Fixture	5.0	0.0	5.0
<b>Street Side</b>	Lumens	23856.5	0.0	23856.5
	% Fixture	95.0	0.0	95.0
<b>Total</b>	Lumens	25103.0	0.0	25103.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	264.8	1.1
10°-20°	1049.7	4.2
20°-30°	2135.8	8.5
30°-40°	3707.0	14.8
40°-50°	5237.5	20.9
50°-60°	5939.6	23.7
60°-70°	4926.3	19.6
70°-80°	1784.5	7.1
80°-90°	57.9	0.2
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	25103.0	100.0
0°-180°	25103.0	100.0

**Coefficient of Utilization**

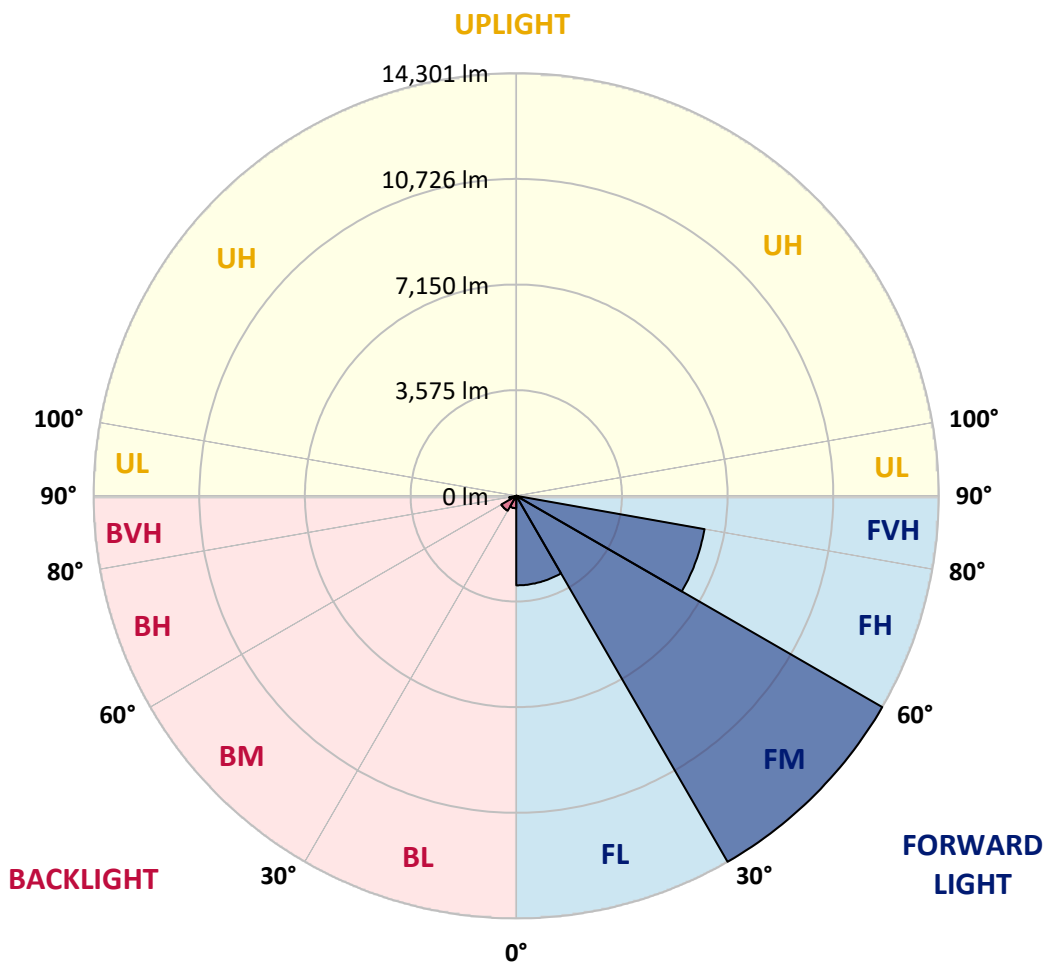


REPORT NUMBER: P321410  
 CATALOG NUMBER: GLEON-SA6C-827-U-T2R-HSS

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3029.8	12.1			
FM (30°-60°)	14300.7	57.0			
FH (60°-80°)	6469.9	25.8			G3/7500
FVH (80°-90°)	56.0	0.2			G1/100
BL (0°-30°)	420.4	1.7	B1/500		
BM (30°-60°)	583.4	2.3	B1/1000		
BH (60°-80°)	240.9	1.0	B1/500		G1/500
BVH (80°-90°)	1.8	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G3**  
 Type II Medium





REPORT NUMBER: P321410

CATALOG NUMBER: GLEON-SA6C-827-U-T2R-HSS

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	2129.5	2129.5	2129.5	2129.5	2129.5	2129.5	2129.5	2129.5	2129.5	2129.5	2129.5
2.5°	3178.8	3107.3	3123.8	3077.6	2994.0	2822.4	2676.1	2537.5	2375.8	2370.3	2237.3
5°	4286.4	4225.9	4218.2	4124.7	3972.9	3681.5	3397.7	3074.3	2713.5	2687.1	2404.4
7.5°	5291.8	5243.4	5225.8	5114.7	4832.0	4548.2	4178.6	3703.5	3139.2	3090.8	2629.9
10°	6063.9	6040.8	6045.2	5966.0	5724.0	5460.0	4975.0	4368.9	3622.1	3547.3	2900.5
12.5°	6649.1	6654.6	6694.2	6645.8	6510.5	6314.7	5796.6	5078.4	4156.6	4054.3	3209.6
15°	7079.1	7106.6	7179.2	7239.7	7229.8	7060.4	6585.3	5798.8	4724.2	4610.9	3553.9
17.5°	7357.4	7388.2	7493.8	7628.0	7751.2	7711.6	7346.4	6494.0	5298.4	5167.5	3922.3
20°	7601.6	7637.9	7751.2	7928.3	8158.2	8207.7	7967.9	7168.2	5871.4	5711.9	4302.9
22.5°	8130.7	8129.6	8198.9	8302.3	8521.1	8648.7	8496.9	7794.1	6437.9	6271.8	4691.2
25°	9087.6	9051.3	9027.1	8945.7	8994.1	9073.3	8988.6	8379.3	7007.6	6839.4	5085.0
27.5°	10224.9	10246.9	10051.1	9832.3	9662.9	9581.5	9442.9	8921.5	7555.4	7370.6	5469.9
30°	11425.0	11431.6	11200.6	10921.2	10548.3	10239.2	9999.4	9439.6	8118.6	7917.3	5843.9
32.5°	12507.3	12464.4	12235.6	11855.0	11384.3	11036.7	10538.4	10018.1	8714.7	8520.0	6259.7
35°	13365.2	13314.6	13036.4	12689.9	12201.5	11851.7	11252.3	10595.6	9341.7	9151.4	6676.6
37.5°	13992.2	13932.8	13646.8	13290.4	12869.2	12665.7	12080.5	11223.7	10025.8	9821.3	7115.4
40°	14210.0	14158.3	13979.0	13718.3	13379.5	13333.3	12959.4	11946.3	10770.5	10552.7	7612.6
42.5°	14080.2	14029.6	13965.8	13877.8	13737.0	13781.0	13788.7	12770.2	11597.6	11383.2	8161.5
45°	13565.4	13520.3	13586.3	13715.0	13889.9	14107.7	14545.5	13655.6	12521.6	12292.8	8796.1
47.5°	12807.6	12774.6	12957.2	13278.3	13789.8	14390.4	15237.3	14586.2	13558.8	13346.5	9588.1
50°	11729.6	11724.1	12089.3	12675.6	13462.0	14526.8	15952.3	15644.3	14999.7	14776.4	10689.1
52.5°	10051.1	10062.1	10780.4	11718.6	12886.8	14434.4	16412.0	17003.8	16676.0	16443.9	11642.7
55°	8452.9	8518.9	9028.2	10381.1	12004.6	14091.2	16570.4	17638.5	17601.1	17381.1	12172.9
57.5°	6887.8	7007.6	7498.2	8762.0	10716.6	13300.3	16483.5	17913.4	18289.6	18121.3	12872.5
60°	5191.7	5246.7	5812.0	6993.3	9063.4	11857.2	15853.3	18063.0	19231.1	19114.6	13887.7
62.5°	3303.1	3440.6	3942.1	5081.7	7057.1	9853.2	14790.7	18060.8	20409.2	20473.0	15197.7
65°	1740.1	1900.7	2166.9	3149.1	4849.6	7614.8	13192.5	17891.4	21854.5	21943.6	16221.7
67.5°	938.2	984.4	1125.2	1634.5	2812.5	5158.7	10844.2	17055.5	22691.5	22809.2	16364.7
70°	686.4	711.7	764.5	904.1	1415.6	2996.2	7912.9	15160.3	21612.5	21568.5	14540.0
72.5°	526.9	566.5	606.1	662.2	813.9	1599.3	4926.6	11871.5	17244.7	16954.3	10868.4
75°	415.8	422.4	478.5	529.1	610.5	910.7	2187.8	6914.2	10525.2	9837.8	5636.0
77.5°	332.2	336.6	369.6	413.6	490.6	598.4	677.6	2720.1	3360.3	2998.4	1223.1
80°	196.9	207.9	275.0	319.0	407.0	377.3	247.5	590.7	524.7	475.2	205.7
82.5°	110.0	118.8	155.1	251.9	283.8	180.4	123.2	159.5	123.2	119.9	58.3
85°	0.0	5.5	100.1	156.2	115.5	39.6	51.7	52.8	36.3	34.1	23.1
87.5°	0.0	0.0	30.8	29.7	4.4	6.6	12.1	17.6	14.3	14.3	12.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P321410

CATALOG NUMBER: GLEON-SA6C-827-U-T2R-HSS

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2129.5	2129.5	2129.5	2129.5	2129.5	2129.5	2129.5	2129.5	2129.5	2129.5	2129.5
2.5°	2171.3	2111.9	1999.7	1889.7	1797.3	1721.4	1653.2	1625.7	1603.7	1600.4	1582.8
5°	2268.1	2148.2	1933.7	1757.7	1640.0	1556.4	1484.9	1440.9	1406.8	1393.6	1381.5
7.5°	2414.3	2232.9	1924.9	1722.5	1581.7	1440.9	1308.9	1165.9	1076.8	1042.7	1022.9
10°	2592.5	2345.0	1957.9	1712.6	1466.2	1169.2	950.3	768.8	695.2	671.0	664.4
12.5°	2800.4	2484.7	2015.1	1651.0	1219.8	830.4	655.6	594.0	577.5	569.8	569.8
15°	3039.1	2637.6	2055.8	1472.8	901.9	628.1	567.6	539.0	521.4	511.5	512.6
17.5°	3283.3	2787.2	2036.0	1214.3	665.5	558.8	513.7	482.9	458.7	448.8	446.6
20°	3529.7	2925.8	1926.0	904.1	563.2	507.1	456.5	422.4	398.2	388.3	386.1
22.5°	3784.9	3043.5	1732.4	663.3	506.0	449.9	400.4	366.3	343.2	334.4	330.0
25°	4033.4	3139.2	1461.8	536.8	452.1	396.0	348.7	316.8	295.9	287.1	286.0
27.5°	4265.5	3199.7	1148.3	474.1	404.8	347.6	304.7	276.1	258.5	251.9	250.8
30°	4474.5	3205.2	849.1	427.9	363.0	305.8	266.2	240.9	225.5	218.9	216.7
32.5°	4685.7	3159.0	618.2	386.1	324.5	269.5	231.0	211.2	200.2	194.7	194.7
35°	4884.8	3052.3	481.8	349.8	287.1	234.3	203.5	189.2	182.6	177.1	177.1
37.5°	5079.5	2899.4	409.2	317.9	251.9	204.6	179.3	170.5	165.0	159.5	159.5
40°	5277.5	2706.9	371.8	288.2	223.3	181.5	159.5	151.8	146.3	141.9	140.8
42.5°	5520.5	2484.7	347.6	260.7	198.0	160.6	140.8	132.0	127.6	123.2	121.0
45°	5802.1	2293.4	327.8	233.2	177.1	143.0	122.1	113.3	106.7	101.2	100.1
47.5°	6208.0	2154.8	301.4	203.5	157.3	124.3	105.6	95.7	85.8	80.3	79.2
50°	6726.1	2040.4	267.3	177.1	137.5	105.6	88.0	75.9	67.1	61.6	61.6
52.5°	6983.4	1890.8	236.5	154.0	115.5	89.1	71.5	57.2	52.8	47.3	47.3
55°	7086.8	1776.4	205.7	130.9	95.7	73.7	56.1	44.0	40.7	37.4	36.3
57.5°	7377.2	1743.4	179.3	111.1	79.2	58.3	42.9	33.0	30.8	26.4	26.4
60°	7844.7	1759.9	155.1	94.6	63.8	45.1	31.9	25.3	23.1	18.7	18.7
62.5°	8349.6	1739.0	130.9	81.4	49.5	33.0	22.0	18.7	18.7	11.0	9.9
65°	8446.4	1548.7	112.2	67.1	38.5	24.2	14.3	12.1	16.5	2.2	0.0
67.5°	7839.2	1201.1	96.8	51.7	28.6	18.7	11.0	5.5	14.3	0.0	0.0
70°	6268.5	763.4	78.1	37.4	22.0	15.4	8.8	2.2	11.0	0.0	0.0
72.5°	4432.7	443.3	61.6	26.4	18.7	12.1	6.6	0.0	6.6	0.0	0.0
75°	2241.7	236.5	38.5	19.8	14.3	8.8	4.4	0.0	1.1	0.0	0.0
77.5°	485.1	110.0	24.2	14.3	9.9	5.5	2.2	0.0	0.0	0.0	0.0
80°	105.6	48.4	15.4	8.8	5.5	3.3	0.0	0.0	0.0	0.0	0.0
82.5°	38.5	25.3	7.7	4.4	2.2	0.0	0.0	0.0	0.0	0.0	0.0
85°	20.9	13.2	4.4	2.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	11.0	4.4	1.1	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)